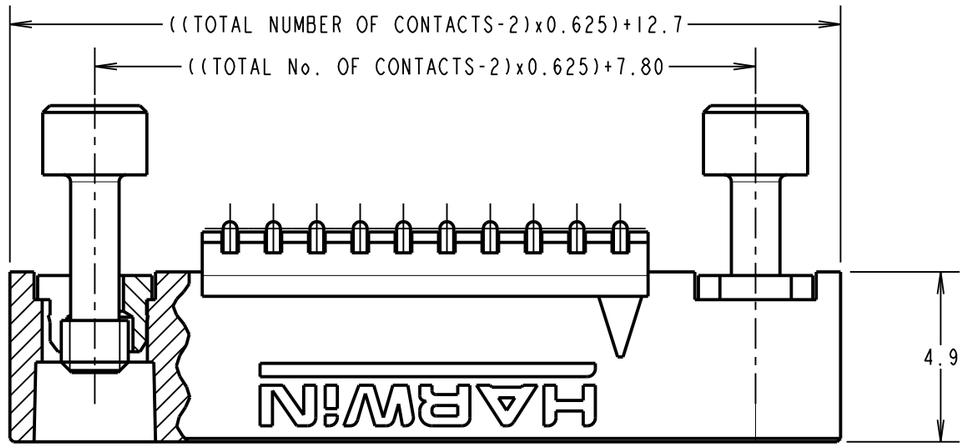
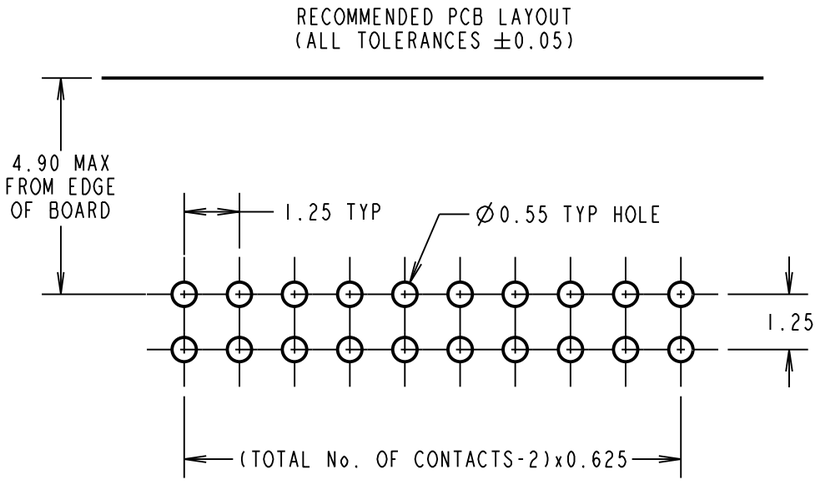
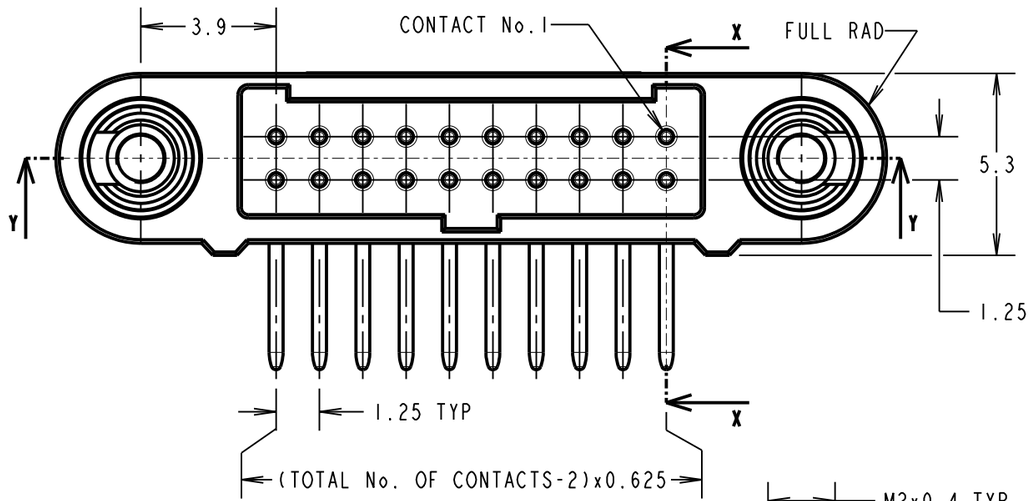
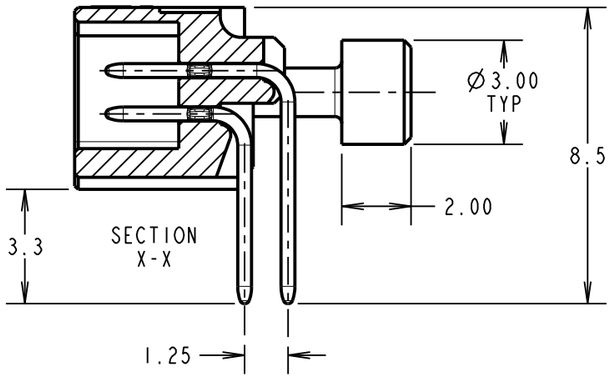
Customer Information Sheet

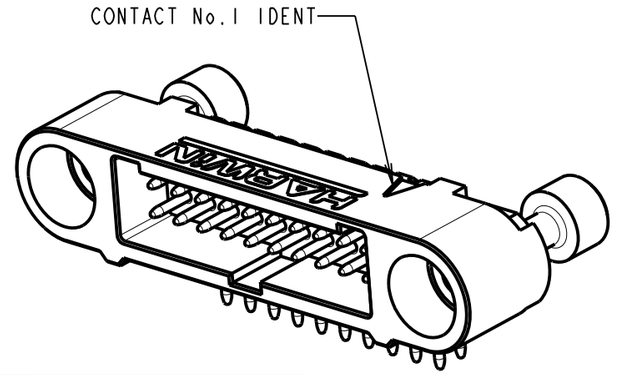
DRAWING No.: G125-MHIXX05M3P	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm

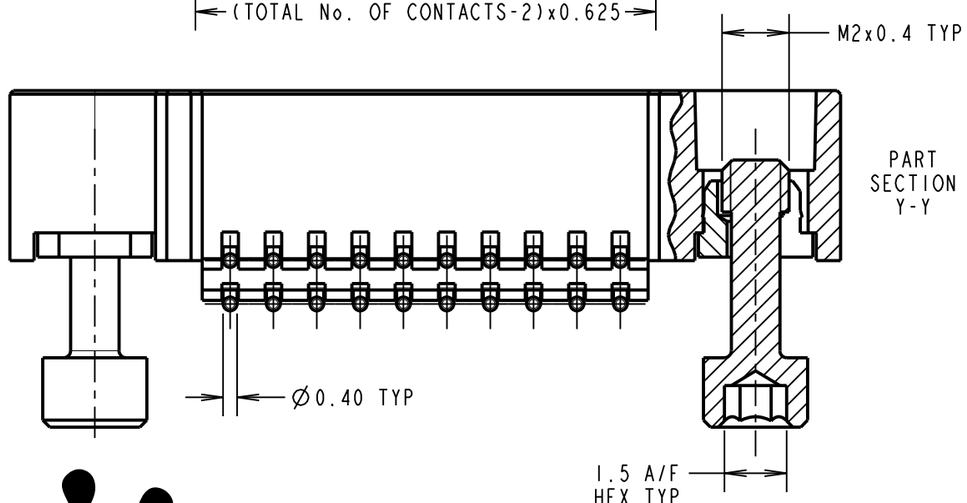












PRODUCT CODE:
G125-MHIXX05M3P
TOTAL No. OF CONTACTS
06, 10, 12, 16, 20, 26, 34 & 50.

CONNECTOR AND PCB LAYOUT DETAILS ONLY. SEE SHEET 4 FOR TAPE STRIP DETAILS.

NOTES:
1. FOR MATERIALS, FINISH AND SPECIFICATION SEE GECKO SERIES CONNECTORS SPECIFICATION SUMMARY SHEET OR COMPONENT SPECIFICATION C125XX (LATEST ISSUE) FOR FULL SPECIFICATION.
2. DRAWING SHOWS CONNECTOR WITH 20 CONTACTS.

MR	1	20.02.20	30013
NAME	ISS.	DATE	C/NOTE
APPROVED:	M.RUDKIN		
CHECKED:	R.PORTLOCK		
DRAWN:	M.RUDKIN		
CUSTOMER REF.:			
ASSEMBLY DRG:			

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PATENTED TECHNOLOGY

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www.harwin.com
technical@harwin.com

TOLERANCES
X. = ±1mm
X.X = ±0.50mm
X.XX = ±0.20mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

MATERIAL: SEE ABOVE
FINISH: SEE ABOVE
S/AREA: mm²

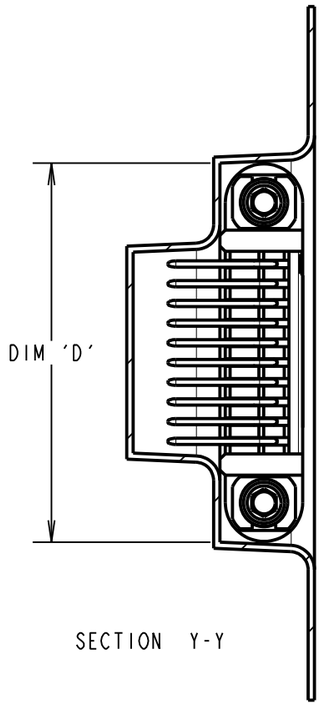
TITLE: GECKO-SL HORIZONTAL PC-TAIL MALE CONNECTOR ASSEMBLY IN TAPE

DRAWING NUMBER: G125-MHIXX05M3P

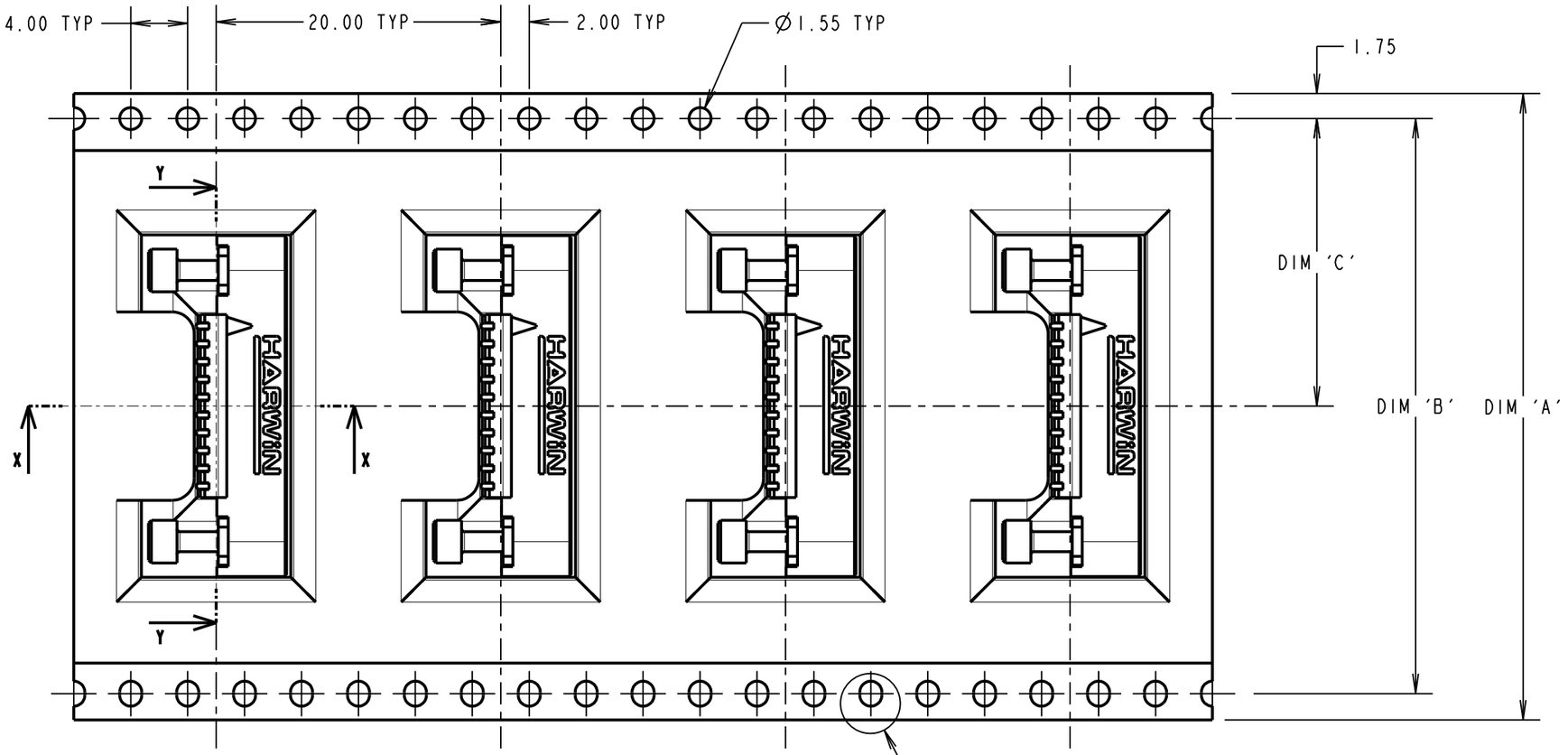
SHT 3 OF 4

Customer Information Sheet

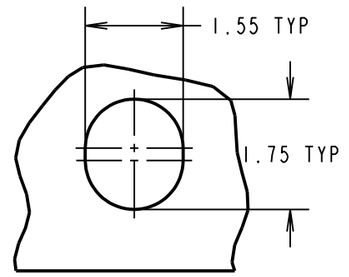
DRAWING No.: GI25-MHIXX05M3P	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm



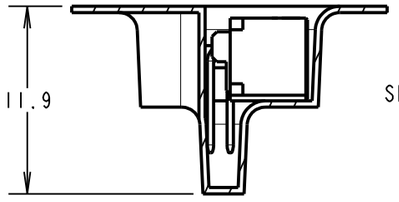
SECTION Y-Y



ELONGATED SPROCKET HOLE SEE DETAIL A



DETAIL A
(SCALE 10)



SECTION X-X

TAPE STRIP DETAILS ONLY. SEE SHEET 3 FOR CONNECTOR AND PCB LAYOUT DETAILS.

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PATENTED TECHNOLOGY

PRODUCT CODE:
GI25-MHIXX05M3P
TOTAL No. OF CONTACTS
06, 10, 12, 16, 20, 26, 34 & 50.

PART No.	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'
GI25-MHI0605M3P	32.0±0.3	28.40	14.20	15.30
GI25-MHI1005M3P				17.80
GI25-MHI1205M3P				19.05
GI25-MHI1605M3P	44.0±0.3	40.40	20.20±0.15	21.55
GI25-MHI2005M3P				24.05
GI25-MHI2605M3P	56.0±0.3	52.40	26.20±0.15	27.80
GI25-MHI3405M3P				32.80
GI25-MHI5005M3P				42.80

MR	I	20.02.20	30013
NAME	ISS.	DATE	C/NOTE
APPROVED:	M.RUDKIN		
CHECKED:	R.PORTLOCK		
DRAWN:	M.RUDKIN		
CUSTOMER REF.:			
ASSEMBLY DRG:			

NOTES CONT.:
3. COMPONENTS ARE ORIENTED IN TAPE POCKETS AS SHOWN.
4. COMPONENTS ARE SUPPLIED IN STRIPS OF TAPE. SUPPLIED QUANTITY MAY CONSIST OF MORE THAN ONE STRIP. STRIP LENGTH MAY VARY.
5. LARGE QUANTITIES MAY BE SHIPPED ON A REEL AND MAY NOT HAVE A LEADER.

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TOLERANCES
X. = ±1mm
X.X = ±0.50mm
X.XX = ±0.20mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

MATERIAL: SEE ABOVE
FINISH: SEE ABOVE
S/AREA: mm²

TITLE: GECKO-SL HORIZONTAL PC-TAIL MALE CONNECTOR ASSEMBLY IN TAPE

DRAWING NUMBER: GI25-MHIXX05M3P

SHT 4 OF 4

Customer Information Sheet

DRAWING No.: G125-SERIES COMPONENT SPECIFICATION	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm

SPECIFICATIONS:

MATERIALS:
MOULDING, PICK & PLACE CAP:
POLYAMIDE, PA4T-GF30 FR(40) UL94V-0,
HALOGEN FREE, FREE OF RED PHOSPHORUS

CONTACTS:
SIGNAL CONTACTS:
MALE PC-TAIL/SMT = PHOSPHOR BRONZE
MALE CRIMP = BRASS
ALL FEMALE CONTACTS = BERYLLIUM COPPER
POWER CONTACTS:
ALL CONTACTS = BERYLLIUM COPPER

LOCKING HARDWARE:
LATCHES: COPPER NICKEL TIN ALLOY
SCREW LOCK: STAINLESS STEEL

BACK POTTING COMPOUND (CABLE ASSEMBLIES ONLY):
STYCAST 2651 MM BACK POTTING WITH CATALYST 9

FINISH:
ALL SIGNAL CONTACTS:
0.2-0.3µm GOLD OVER NICKEL
ALL POWER CONTACTS:
0.76-1.00µm GOLD OVER 1.50-2.50µm NICKEL
AND COPPER FLASH
LATCHES:
3.0µm 100% TIN OVER NICKEL

MECHANICAL:
DURABILITY = 1000 OPERATIONS
RETENTION IN HOUSING (ALL CONTACTS) = 6.0N MIN
SIGNAL CONTACTS:
INSERTION FORCE = 2.8N MAX
WITHDRAWAL FORCE = 0.2N MIN
POWER CONTACTS:
INSERTION FORCE = 7.0N MAX
WITHDRAWAL FORCE = 0.2N MIN
SCREW-LOK:
RETENTION IN HOUSING = 20.0N MIN
LATCHES:
RETENTION IN HOUSING = 4.0N MIN

ENVIRONMENTAL:
CLASSIFICATION: 65/150/56 DAYS AT 93% RH

TEMPERATURE RANGE:
* EIA-364-32 : 2000 TEST CONDITION IV, DWELL
30mins, 5 CYCLES -65°C TO +150°C

MECHANICAL:
VIBRATION AND SHOCK:
* EIA-364-28D : 1999: TEST CONDITION IV: VIBRATION SEVERITY:
10Hz TO 2000Hz, 1.5mm, 198mm/s² (20G). DURATION 2Hr
* EIA-364-28D : 1999: TEST CONDITION IV: VIBRATION SEVERITY:
10Hz TO 2000Hz, 1.5mm, 198mm/s² (20G). DURATION 2Hr
* EIA-364-27B : 1996: TEST CONDITION E SHOCK SEVERITY: 981mm/s²
(100G) FOR 6ms IN Z AXIS, 490mm/s² (50G) FOR 11m/s IN X & Y AXIS.
* EIA-364-01A : 2000: ACCELERATION: 490mm/s² (50G)
* BUMP SEVERITY: 390mm/s² (40G), 4000±10 BUMPS
* TESTED WITH LATCHED CONNECTORS

ELECTRICAL:
CURRENT RATING:
SIGNAL CONTACTS:
EIA-364-70A : 1998: INDIVIDUAL CONTACT IN ISOLATION AT 25°C = 2.8A MAX
EIA-364-70A : 1998: ALL CONTACTS SIMULTANEOUSLY AT 25°C = 2.0A MAX
POWER CONTACTS:
EIA-364-70A : 1998: PER CONTACT, THROUGH ALL CONTACTS = 10A MAX
CONTACT RESISTANCE:
EIA-364-06C : 2006: INITIAL CONTACT RESISTANCE = 20mΩ MAX
EIA-364-06C : 2006: CONTACT RESISTANCE AFTER CONDITIONING = 25mΩ MAX
VOLTAGE PROOF:
EIA-364-20C : 2004: SEA LEVEL (1013mbar) = 600V DC/AC PEAK
EIA-364-20C : 2004: ALTITUDE LEVEL (44mbar, 21,336m/70,000ft) = 350V DC/AC PEAK
WORKING VOLTAGE:
AT SEA LEVEL (1006mbar) = 450V DC/AC PEAK
AT ALTITUDE (44mbar, 21,336m/70,000ft) = 250V DC/AC PEAK

INSULATION RESISTANCE:
EIA-364-21C : 2000: INSULATION RESISTANCE (INITIAL)
= 10GΩ MIN AT 500V DC
EIA-364-21C : 2000: INSULATION RESISTANCE (AFTER CONDITIONING
= >1GΩ MIN AT 500V DC

FOR FULL COMPONENT SPECIFICATION SEE C125XX (LATEST ISSUE).

RTP	5	04.10.19	22083
NAME	ISS.	DATE	C/NOTE
APPROVED:	R.PORTLOCK		
CHECKED:	S.BENNETT		
DRAWN:	S.FLOWER		
CUSTOMER REF.:			
ASSEMBLY DRG:			

gecko

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TOLERANCES
X. = ±1mm
X.X = ±0.50mm
X.XX = ±0.20mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

MATERIAL: SEE ABOVE

FINISH: SEE ABOVE

S/AREA: mm²

TITLE: G125 SERIES COMPONENT SPECIFICATION

DRAWING NUMBER: G125-SERIES CONNECTORS

SHT 1 OF 1

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Harwin:
G125-MH10605M3P G125-MH11005M3P G125-MH11205M3P G125-MH11605M3P G125-MH12005M3P G125-MH12605M3P G125-MH13405M3P G125-MH15005M3P